

## ROUTING AND SWITCHING IN A HYBRID NETWORK

### ABSTRACT

5           A protocol-independent framework that facilitates routing and switching in  
a network that has hybrid nodes is described. Using the framework, optical paths  
are established between and among nodes statically and dynamically. When the  
paths are established dynamically, the paths maybe explicitly established or  
shared. Traffic is transported using switching wavelengths, routing wavelengths,  
10           and/or control wavelengths. Traffic transported on switching wavelengths is  
switched in the optical domain. Traffic transported on routing wavelengths is  
routed according to the OSI reference model.